CLAIMS

1. A track tensioning system for a tracked vehicle including a hull supporting a plurality of mid rollers, a front idler wheel, a rear idler wheel, an idler wheel, a drive sprocket, and an endless track belt trained around the mid rollers, the idler wheels and the drive sprocket, the mid rollers and the idler wheels being mounted on a rail, comprising:

a cam plate, rotatably connected to the drive sprocket on a first end thereof, and to the rail on a second end thereof; and

a member, mounted at a first end thereof to the rail and at a second end thereof to said cam plate;

wherein said member has a variable length defined between an attachment point to said cam plate and an attachment point to said rail.

- 2. The track tensioning system according to claim 1, wherein said member is selected in the group comprising a spring, a hydraulic cylinder and a pneumatic cylinder.
- 3. The track tensioning system according to claim 1, wherein the drive sprocket is a drive wheel with teeth is in driving engagement with the endless track belt in an endless path.
- 4. The track tensioning system according to claim 1, wherein the drive sprocket is mounted on a shaft selected in the group comprising a shaft of a motor and a chained shaft.
- 5. The track tensioning system according to claim 1, wherein the endless drive track is typically formed of resilient material.

- 6. The track tensioning system according to claim 5, wherein said resilient material is selected in the group comprising a rubber and a reinforced rubber.
- 7. The track tensioning system according to claim 1, wherein the endless drive track is provided with traction lugs on a first surface thereof, and with drive lugs on a second first surface thereof.
- 8. A track tensioning system for a tracked vehicle, comprising:

a cam plate, rotatably connected to a drive sprocket on a first end thereof, and to a rail supporting mid rollers and idler wheels of the tracked vehicle at a second end thereof; and

a member, mounted at a first end thereof to said rail and at a second end thereof to said cam plate;

wherein said dynamic member has a variable length.

- 9. The track tensioning system according to claim 8, wherein said member is selected in the group comprising a spring, a hydraulic cylinder and a pneumatic cylinder.
- 10. A track tensioning system for a tracked vehicle comprising a dynamic member supporting a sprocket of a tracked wheel of the tracked vehicle, wherein said dynamic member is forced against an endless track belt of the vehicle so as to maintain a constant tension thereof.
- 11. The track tensioning system according to claim 10, wherein said dynamic member is selected in the group comprising a spring, a hydraulic cylinder and a pneumatic cylinder.